ENVIRONMENTAL CHEMISTS

Date of Report: 11/29/01 Date Received: 11/08/01

Project: Metro Self Monitor PO# M67034

Date Extracted: 11/26/01 Date Analyzed: 11/27/01

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID Chromium	Copper Nickel Zinc	
Laboratory ID	함께 주었다고 있었는 기술성은 가장이라고 있었다. '중요한다.'	
화가 내가는 그렇게, 그렇게, 그렇게, 걸게하는 걸린	경영 등입니다 6명일 : [설명] : 41 188 : 조심함 : [설명 4	
M67034 0.66	0.66 0.74 < 0.05	
111048-01		
	로본은 하는 보는 문 보는 하는 것은 그는 것을 들은	L.
즐길 가루시 작업이 이렇게 가졌다고 하다 그릇을		
Method Blank <0.05	<0.05 <0.05 <0.05	

ENVIRONMENTAL CHEMISTS

Date of Report: 11/29/01 Date Received: 11/08/01

Project: Metro Self Monitor PO# M67034

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 111048-01 (Duplicate)

				Relative	
	Reporting	Sample	Duplicate	Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.66	0.63	5	0-20
Copper	mg/L (ppm)	0.66	0.64	3	0-20
Nickel	mg/L (ppm)	0.74	0.74	0	0-20
Zinc	mg/L (ppm)	< 0.05	< 0.05	nm	0-20
	Chromium Copper Nickel	Analyte Units Chromium mg/L (ppm) Copper mg/L (ppm) Nickel mg/L (ppm)	Analyte Units Result Chromium mg/L (ppm) 0.66 Copper mg/L (ppm) 0.66 Nickel mg/L (ppm) 0.74	Analyte Units Result Result Chromium mg/L (ppm) 0.66 0.63 Copper mg/L (ppm) 0.66 0.64 Nickel mg/L (ppm) 0.74 0.74	Reporting Analyte Sample Units Duplicate Result Percent Difference Chromium mg/L (ppm) 0.66 0.63 5 Copper mg/L (ppm) 0.66 0.64 3 Nickel mg/L (ppm) 0.74 0.74 0

Laboratory Code: 111048-01 (Matrix Spike)

1	STANDARDA TA	Reporting	Spike	Sample	% Recove	ery % Recove	ry Acceptanc	e RPD	
	Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 2	20)_
Ţ	Chromium	mg/L (ppm)	2	0.66	92	93	80-120	1	
	Copper	mg/L (ppm)	2	0.66	83	80	80-120	4	
	Nickel	mg/L (ppm)	4	0.74	94	97	80-120	3	
	Zinc	mg/L (ppm)	2	< 0.05	102	104	80-120	2	ALT:

Laboratory Code: Laboratory Control Sample

		on on womanpac				
Albertan.	Reporting	Spike %	Recovery 9	6 Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Chromium	mg/L (ppm)	2	95	97	80-120	2
Copper	mg/L (ppm)	2	96	98	80-120	2
Nickel	mg/L (ppm)	4	96	98	80-120	2
Zinc	mg/L (ppm)	2	98	99	80-120	1

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 29, 2001

DUPLICATE COPY

INVOICE #01ACU1129-3

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor PO# M67034 - Results of testing requested by Gerry Thompson for material submitted on November 8, 2001.

FEDERAL TAX ID *(b) (6)

SAMPLE CHAIN OF CUSTODY

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in	11/8/01	7) 1 /
U.		

Send Report To GERCLD A. Thompson	SAMPLERS (extrature)	
Company ALASKAN Copper works	PROJECT NAME/NO. Metro Self monton.	PO#
Address (028 S. HANGEL ST	REMARKS	MGTOSY
City, State, ZIP Seattle WA 9834 Phone # 206-382-8379 Fax # 206-382-4309		

Page #	of
TURNARO	OUND TIME
☐ Standard (2 V	Veeks)
□ RUSH	
Rush charges au	thorized by:

	DISPOSAL
☐ Dispose after	30 days
☐ Return sampl	es
□ Will call with	

										ANA	LYS	ES R	EQU	ESTI	ED			
Sample ID	Lab ID	Date Sampled	Time Sampled		# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	CK, Cy My ZN					Notes	
m67034	01	11/8/01	12:30	tro	1							J						
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Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	Relinguished by	GERALD A. Thomson	ACW	11/8/01	Zioga
)	Received by:	Rixanne Musser	Friedman & Bruya Su.	1/8/01	2:00 sm
	Relinquished by:				
	Received by:				

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 29, 2001

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on November 8, 2001 from your Metro Self Monitor PO# M67034 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures ACU1129R.DOC